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ECHINODERMA

COMPILED BY

A. G. BRIGHTON, M.A.

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†*Echinocorys asymmetricus* fig. 20, *depressus* fig. 18, *pentagonalis* fig. 21, *rectus* fig. 17, *semiglobosus* fig. 19, KONGIEL 76 p. 237.

Echinocyamus polyporus, FELL 50 p. 8 pl. ii figs. 19–20.—*E. apicatus* p. 71, *convergens* p. 72, *scaber* var. *conicus* p. 71, MORTENSEN 97.

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Echinolampas alexandri var. *forcipulata* p. 68, var. *sibogae* p. 67, MORTENSEN 97.

†*Echinolampas concavus* sp. n. Miocene China, HAYASAKA Acta Geol. Taiwanica 2 1948 pp. 89–90; *E. jackemonti*, ID. p. 88.—*E.* sp. indet., HAYASAKA & MORISHITA 64 p. 103 pl. ix fig. 2.

†*Echinolampas* (*Miolampas*) *depressus*, HAYASAKA & MORISHITA 64 p. 105 pl. ix fig. 1.

Echinometra mathaei, HAYASAKA 60 p. 30 pl. vi figs. 3–4.

Echinoneus cyclostomus, HAYASAKA 60 p. 26 pl. vi fig. 2.

†*Echinopygus checchiai* sp. n. Jurassic Somaliland, MACCAGNO Mem. Accad. Lincei (8) 1 1947 pp. 134–136 fig. 4c, pl. i figs. 14, a–b.

Encope emarginata, BERNASCONI 11 p. 103 fig. 5 (1).—*E. wetmorei*, CASO 18 p. 345 figs. 3–4.

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†*Hagenowia blackmorei* pp. 467-470 figs. 14-16, *infulasteroides* pp. 470-472 figs. 17-18, spp. n. Cretaceous England, WRIGHT & WRIGHT Ann. Mag. Nat. Hist. (12) **2**; *rostrata*, ID. p. 462 figs. 7-13.

Helicocidaris tuberculata, FELL **50** p. 7 pl. i fig. 2.

†*Hemimaster (Macraster) cascajalensis* sp. n. Cretaceous Peru, COOKE J. Paleont. Menasha Wis. **23** pp. 85-86 pl. xxii figs. 6-11.

†*Hemidiadema mortensi* sp. n. Jurassic Somaliland, MACCAGNO Mem. Accad. Lincei (8) **1** 1947 pp. 116-118 pl. i figs. 6, a, b.

Heterocentrotus mammillatus p. 16 pl. iii figs. 2, 4, *trigonarius* p. 16 pl. iii fig. 3, HAYASAKA **60**.

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†*Holcotypus depressus*, MACCAGNO **85** p. 125.

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†*Infulaster eccentricus*, WRIGHT & WRIGHT **158** p. 456 figs. 1-6.

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†*Laganum fudsuyama takunagai* subsp. n. Miocene Japan, Otuka J. Fac. Sci. Imp. Univ. Tokyo Geol. **5** 1938 pp. 18-19 pl. ii figs. 22-23.—*L. aff. boschi*, HAYASAKA & MORISHITA **64** p. 97 pl. ix fig. 3.

†Cf. *Lepidesthes caledonica*, DEMANET **42** p. 4 pl. ii fig. 5.

†*Linthia taiwanensis* sp. n. Miocene China, HAYASAKA Acta Geol. Taiwanica **2** 1948 pp. 90-93 pl. i figs. 1a-b, pl. ii figs. 1a-b.

Loxechinus albus, BERNASCONI **11** p. 103 fig. 4 (1-2).

Mellita grantii, MORTENSEN **97** p. 72.

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†*Merriamaster perrini*, DURHAM **44** p. 55 figs. 1E, 2E, pl. ii fig. 3.

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†*Metalia?* sp. indet., HAYASAKA **59** p. 112 pl. v fig. 1.

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Moira obesa p. 103 pl. i figs. 2a-c, ? *M. sp.* p. 105 pl. i fig. 3, HAYASAKA **59**.

†*Moiropsis depressa* sp. n. Miocene China, HAYASAKA Acta Geol. Taiwanica **2** 1948 pp. 106-109 pl. i figs. 4a-c.

Nannolampas with *N. tenera*, MORTENSEN **97** p. 68.

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†*Orthopsis titicacana* sp. n. Cretaceous Peru, COOKE J. Paleont. Menasha Wis. **23** pp. 84-85 pl. xxii figs. 1-5.

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†*Peronella cf. decagonalis*, HAYASAKA & MORISHITA **64** p. 99 pl. viii fig. 4.

†*Peronella* with subgen. *Peronellites* subgen. n. for type *P. ovalis* sp. n. Miocene China, HAYASAKA & MORISHITA Acta Geol. Taiwanica **1** 1947 pp. 101-103 pl. viii figs. 3, 5.

†*Peronellites* subgen. n. see *Peronella*.

Planilampas with *P. keiensis*, MORTENSEN **97** p. 68.

†Cfr. *Plegiocidaris choffati*, MACCAGNO **85** p. 105 pl. i fig. 1 [Radiole.]

†*Porosoma* sp. indet., HAYASAKA **59** p. 86 pl. iv figs. 2a-b.

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†*Psephechinus* cfr. *mycrocyphus*, MACCAGNO 85 p. 124 pl. i fig. 10.

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†*Pseudocidaris gortanii* sp. n. pp. 121–122 fig. 1c, pl. i fig. 8, *migliorinii* sp. n. pp. 118–120 fig. 2, pl. i figs. 7, a, Jurassic Somaliland, MACCAGNO Mem. Accad. Lincei (8) 1 1947; cf. *P. grayensis*, Id. p. 120 pl. i fig. 9.

†*Pseudopygus letteroni*, MACCAGNO 85 p. 132 fig. 4a–b, pl. i fig. 13.

†*Pseudosalenia pseudocidaroides*, MACCAGNO 85 p. 113 pl. i fig. 5.

†*Pygurostoma pasionensis* sp. n. Cretaceous Central America, COOKE Amer. Mus. Nov. No. 1422 pp. 1–3 fig. 1.

†*Recrosalenia somaliensis*, MACCAGNO 85 p. 115.

†*Rhabdocidaris* cf. *kisombyensis* p. 107 pl. i fig. 2, aff. *mogharensis* p. 106, MACCAGNO 85 [Radioles].

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†*Schizaster* (?*Paraster*) *taiwanicus* sp. n. Eocene China, HAYASAKA Acta Geol. Taiwanica 2 1948 pp. 98–101 pl. ii fig. 4, pl. v figs. 2–5; *S.* (?*P.*)sp. indet., Id. p. 101 pl. ii fig. 5.

†*Scutella bonali* p. 403 fig. 1, *faujasi* var. *armoricana* p. 406 fig. 5, *leognanensis* p. 404 fig. 2, *paulensis* p. 405 fig. 3, *producta* p. 406 fig. 6, *striatula* p. 405 fig. 4, DUVAL 45.

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†*Stomechinus pyramidatus*, MACCAGNO 85 p. 122.

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†*Tessieria* gen. n. for type *T. sene-galensis* sp. n. Cretaceous W. Africa, COLLIGNON Bull. Soc. géol. Fr. (5) 19 pp. 263–268 figs. 1–2, pl. ix figs. 1–5.

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†*Alcimocrinus ornatus* sp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3 pp. 346–347 pl. xxxiii figs. 1–7.

†*Austinocrinus solignaci*, ARNOULD-SAGET 2 p. 41 pl. iv figs. 1–6.

†*Basileocrinus striategranulatus*, WANNER 154 p. 40.

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†*Cadocrinus variabilis*, WANNER 154 p. 5 figs. 1–7, pl. i figs. 1–2.

†*Calceolispongia abundans* pp. 54–59 pl. i figs. 2, 7, 12, 21–22, pl. vi figs. 21–22, pl. viii fig. 2, pl. ix, pl. x figs. 1–10, 13–38, pls. xi–xii; *acuminata* pp.

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†*Calycocrinus curvatus subturbinatus*, C. major, YAKOVLEV 159 p. 265 fig. 1.

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†*Ethelocrinus ardmorensis* pp. 329–330 pl. xxx figs. 9, 12, 15, *iatani* pp. 343–344 pl. xxxii figs. 9–11, *magnus* pp. 330–331 pl. xxx figs. 1, 3–4, 6, *peridous* pp. 331–332 pl. xxx figs. 11, 13–14, 16, *sphaeri* pp. 328–329 pl. xxix figs. 4–6, 9, *variabilis* pp. 332–333 pl. xxix figs. 8, 10–11, *watkinsi* pp. 326–328 fig. 1, pl. xxxi figs. 10, 17, spp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3.

†*Graphiocrinus ovoides* pp. 19–21 pl. i figs. 20–25, *subamplior* pp. 18–19 pl. i figs. 17–19, spp. n. Permian Timor, WANNER Palaeontographica Stuttgart

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†*Graphiocrinus*? *depressus* var. *labiosa* pp. 23–24 pl. ii figs. 5–7, *excavatissimus* var. *ornata* pp. 25–26 pl. ii figs. 9–11, var. n. Permian Timor, WANNER Palaeontographica Stuttgart Suppl. 4 5 1; *G.*? *beyrichi* p. 24, *crassus* p. 26, *declivis* p. 27, *depressus* p. 21 pl. i figs. 26–27, pl. ii fig. 1, cf. *depressus* p. 22 pl. ii figs. 2–4, *excavatissimus* p. 24 pl. ii fig. 8, *rotundatus* p. 27 fig. 11, pl. ii fig. 17, *rugosus* p. 26 pl. ii figs. 12–16, *timoricus* p. 29 pl. ii figs. 22–27 with var. *spinosa* p. 31, ID.

†*Hyboocrinus crinerensis* sp. n. Ordovician U.S.A., STRIMPLE & WATKINS Amer. J. Sci. New Haven 247 pp. 132–133 pl. i figs. 4–8.

†*Jaekelicherinus* gen. n. for type *J. bashkiricus* sp. n. Devonian U.S.S.R., YAKOVLEV J. Paleont. Menasha, Wis. 23 p. 435 figs. 1a–d.

†*Laccocrinus* gen. n. for type *Basleocrinus scrobiculatus* Wanner 1924, WANNER Palaeontographica Stuttgart Suppl. 4 5 1 pp. 10, 55.

†*Lecanocrinus pisiformis*, AMSDEN 1 p. 74 pl. xii figs. 18–20.

†*Lecythocrinus fusiformis* sp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3 pp. 338–339 pl. xxxi figs. 11, 13–14.

†*Lopadiocrinus brouweri* p. 51 figs. 14–15, pl. iii figs. 26–28, *granulatus* p. 50 pl. iii figs. 23–25, WANNER 154.

†*Malaiocrinus azygous* sp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3 pp. 337–338 pl. xxxi figs. 4, 8–9, 12.

†*Mooreocrinus bowsheri* sp. n. Carboniferous U.S.A., STRIMPLE Amer. J. Sci. New Haven 247 pp. 130–131 pl. i figs. 1–3.—*M. meadowensis* sp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3 pp. 344–345 pl. xxxii figs. 12–14.

†*Myelodactylus extensus*, AMSDEN 1 p. 78 pl. xii fig. 17.

†*Parabursacrinus* diagnosis and key to spp. p. 32, *P.?* *gracilis* sp. n. p. 38 fig. 13, pl. iii figs. 8–9, *P. magnificus*

var. *granulatus* var. n. pp. 35–36 pl. iii figs. 1–3, Permian Timor, WANNER Palaeontographica Stuttgart Suppl. 4 5 1; *P. magnificus* p. 34 pl. ii figs. 28–29, *pyramidatus* p. 36 pl. iii figs. 4–7, ID.

†*Paradelocrinus iolaensis* sp. n. Carboniferous U.S.A., STRIMPLE Geol. Mag. London 86 pp. 124–125 fig. 1a, pl. iv figs. 5–7.—*P. cranei* p. 324 pl. xxix figs. 1–3, 7, *disculus* pp. 325–326 pl. xxxi figs. 15–16, *regulatus* p. 325 pl. xxix figs. 13, 15, 17, pl. xxx figs. 2, 5, spp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3.

†*Paraplasocrinus*, WANNER 154 p. 49.

†*Parastachyocrinus* gen. n. for type *Erisocrinus malaianus* Wanner 1924 Permian Timor, WANNER Palaeontographica Stuttgart Suppl. 4 5 1 pp. 42–45 pl. iii figs. 10–17; *P. inflatus* sp. n. p. 46 pl. iii figs. 20–21, *malaianus* var. *ornata* var. n. pp. 45–46 pl. iii figs. 18–19, Permian Timor, ID.

†*Permiocrinus* gen. n. for type *P. immaturus* sp. n. Permian Timor, WANNER Palaeontographica Stuttgart Suppl. 4 5 1 pp. 53–54 fig. 16, pl. iii figs. 29–30.

†*Pisocrinus campana* p. 76 pl. xii figs. 12–13, *quinquelobus* p. 77 pl. xii figs. 14–16, *tennesseensis* p. 78 pl. xii figs. 10–11, AMSDEN 1.

†*Plaxocrinus dornickensis* pp. 333–334 fig. 2?, pl. xxx figs. 7–8, 10, *puteus* pp. 335–336 pl. xxxi figs. 1–2, 5, 7, *tumulosus* pp. 334–335 pl. xxix figs. 12, 14, 16, 18, spp. n. Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3.

†*Poteriocrinidae* gen. ind., sp. n. ind., WANNER 154 p. 54 pl. iii fig. 31.

†*Prolobocrinus permicus*, WANNER 153 p. 83 figs. 1–2.

†*Prophyllocrinus dentatus*, *P.* sp., YAKOVLEV 159 p. 265 fig. 1.

†*Roemerocrinus turbinatus*, WANNER 154 p. 4.

†*Stuartwellercrinus argentinei* sp. n. Carboniferous U.S.A., STRIMPLE Geol. Mag. London 86 pp. 125–126 fig. 1b, pl. iv figs. 1–4.—*S. diagnosis* and key to spp. p. 47, *S. pusillus* p. 48 pl. iii fig. 22, WANNER 154.

†*Thalamocrinus ovatus*, AMSDEN 1 p. 80 pl. xii figs. 8–9.

†*Ulrichicrinus chesterensis* sp. n.
Carboniferous U.S.A., STRIMPLE Palaeontographica Americana 3 pp. 347-348
pl. xxxiii figs. 8-11.

†CARPOIDEA
[Vacant.]

†MACHAERIDIA
[Vacant.]

†EDRIOASTEROIDEA
[Vacant.]

†CYSTIDEA

Tetracystis bifarius sp. n. Silurian
U.S.A., AMSDEN Peabody Mus. Nat.
Hist., Yale Univ. Bull 5 pp. 81-82 fig.
28, pl. xii figs. 1-4.

†BLASTOIDEA

Pentremites godoni alpha and beta,
BURMA 17 p. 95.

Troosticrinus reinwardti, AMSDEN 1
p. 82 fig. 29, pl. xii figs. 5-7.